

Table CT6. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2016, North Dakota

Year	Coal	Natural Gas ^a	Petroleum						Hydro-electric Power ^{e,f}	Biomass		Geo-thermal ^f	Solar ^{f,i}	Retail Electricity Sales	Net Energy ^{f,j}	Electrical System Energy Losses ^k	Total ^{f,j}
			Distillate Fuel Oil	HGL ^b	Motor Gasoline ^c	Residual Fuel Oil	Other ^d	Total		Wood and Waste ^{f,g}	Losses and Co-products ^h						
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels						Million kWh				Million kWh				
1960	521	20	2,104	257	2,927	530	2,005	7,823	0	--	--	--	NA	121	--	--	--
1965	444	21	2,696	240	2,533	632	1,702	7,804	0	--	--	--	NA	241	--	--	--
1970	523	16	2,174	206	2,315	558	2,456	7,710	0	--	--	--	NA	720	--	--	--
1975	570	14	1,613	189	2,193	577	2,219	6,792	0	--	--	--	NA	1,007	--	--	--
1980	585	2	2,460	690	1,540	315	1,836	6,842	0	--	--	--	NA	1,576	--	--	--
1985	5,407	7	2,890	340	1,080	440	1,896	6,646	0	--	--	--	NA	1,988	--	--	--
1990	6,400	11	3,016	644	799	304	1,979	6,742	0	--	--	--	0	1,760	--	--	--
1995	7,447	18	3,027	830	685	145	1,923	6,610	0	--	--	--	0	1,771	--	--	--
1996	6,724	20	2,912	1,093	575	129	2,190	6,899	0	--	--	--	0	1,835	--	--	--
1997	6,465	29	2,613	734	450	178	2,508	6,482	0	--	--	--	0	2,076	--	--	--
1998	6,664	29	2,563	691	562	27	2,542	6,386	0	--	--	--	0	2,187	--	--	--
1999	6,608	26	2,362	972	434	46	3,233	7,048	0	--	--	--	0	3,013	--	--	--
2000	6,719	24	2,756	1,283	443	66	2,179	6,726	0	--	--	--	0	3,031	--	--	--
2001	6,595	26	3,420	3,057	527	33	2,602	9,639	0	--	--	--	0	2,753	--	--	--
2002	6,592	29	2,839	1,279	550	4	2,335	7,007	0	--	--	--	0	2,636	--	--	--
2003	6,628	24	2,881	719	573	43	1,967	6,183	0	--	--	--	0	2,954	--	--	--
2004	5,913	24	3,532	1,286	717	45	2,287	7,867	0	--	--	--	0	3,010	--	--	--
2005	6,467	19	3,747	1,180	626	210	2,700	8,463	0	--	--	--	0	3,050	--	--	--
2006	6,671	21	3,787	1,031	676	95	3,227	8,815	0	--	--	--	0	3,266	--	--	--
2007	6,440	25	3,871	1,230	577	68	1,924	7,670	0	--	--	--	0	3,624	--	--	--
2008	6,379	29	5,018	674	445	80	1,758	7,976	0	--	--	--	0	3,697	--	--	--
2009	6,493	23	3,942	894	457	60	2,152	7,506	0	--	--	--	0	3,641	--	--	--
2010	6,657	32	6,091	760	296	38	R 2,346	R 9,530	0	--	--	--	0	3,850	--	--	--
2011	6,447	37	8,660	461	314	39	R 2,937	R 12,411	0	--	--	--	0	4,319	--	--	--
2012	6,555	37	9,609	571	280	7	R 2,691	R 13,158	0	--	--	--	0	5,124	--	--	--
2013	6,133	41	11,118	1,005	297	0	R 3,319	R 15,739	0	--	--	--	0	5,309	--	--	--
2014	6,452	43	12,363	899	259	1	R 3,222	R 16,744	0	--	--	--	0	7,479	--	--	--
2015	6,619	R 54	7,875	766	402	1	R 2,869	R 11,911	0	--	--	--	0	6,988	--	--	--
2016	6,505	54	5,656	690	368	0	2,585	9,300	0	--	--	--	0	7,433	--	--	--

Trillion Btu																	
1960	7.7	20.3	12.3	1.1	15.4	3.3	12.7	44.8	0.0	0.0	NA	NA	NA	0.4	73.2	1.0	74.3
1965	6.5	20.9	15.7	1.0	13.3	4.0	10.7	44.7	0.0	0.0	NA	NA	NA	0.8	72.9	2.0	74.9
1970	7.2	16.3	12.7	0.8	12.2	3.5	15.6	44.7	0.0	0.0	NA	NA	NA	2.5	70.8	5.9	76.7
1975	7.4	14.0	9.4	0.7	11.5	3.6	14.0	39.2	0.0	0.0	NA	NA	NA	3.4	64.1	8.2	72.3
1980	7.7	2.1	14.3	2.5	8.1	2.0	11.5	38.4	0.0	0.0	NA	NA	NA	5.4	53.6	12.9	66.5
1985	71.2	7.3	16.8	1.2	5.7	2.8	12.2	38.7	0.0	0.0	1.2	NA	NA	6.8	124.7	15.5	140.3
1990	86.3	11.7	17.6	2.3	4.2	1.9	12.4	38.4	0.0	0.1	1.0	0.0	0.0	6.0	142.5	14.3	156.9
1995	99.4	18.7	17.6	3.0	3.6	0.9	12.1	37.2	0.0	0.9	1.3	0.0	0.0	6.0	162.2	13.9	176.2
1996	90.0	20.5	16.9	3.9	3.0	0.8	13.7	38.4	0.0	0.7	0.5	0.0	0.0	6.3	154.9	14.3	169.3
1997	85.9	30.6	15.2	2.6	2.3	1.1	15.9	37.1	0.0	0.9	0.9	0.0	0.0	7.1	159.8	16.6	176.4
1998	88.9	30.0	14.9	2.5	2.9	0.2	16.2	36.7	0.0	1.0	1.1	0.0	0.0	7.5	162.3	17.7	180.0
1999	88.2	27.4	13.7	3.5	2.3	0.3	20.8	40.5	0.0	1.1	1.0	0.0	0.0	10.3	166.0	24.2	190.1
2000	95.6	24.7	16.0	4.5	2.3	0.4	13.8	37.1	0.0	1.2	1.2	0.0	0.0	10.3	168.2	23.9	192.1
2001	93.5	26.9	19.9	10.8	2.7	0.2	16.5	50.2	0.0	2.2	1.3	0.0	0.0	9.4	181.1	21.7	202.8
2002	92.2	29.1	16.5	4.5	2.9	(s)	14.7	38.7	0.0	1.3	1.8	0.0	0.0	9.0	169.7	20.7	190.4
2003	94.8	24.1	16.8	2.6	3.0	0.3	12.2	34.8	0.0	1.3	2.1	0.0	0.0	10.1	165.2	23.4	188.6
2004	84.8	24.8	20.6	4.6	3.7	0.3	14.5	43.6	0.0	1.9	1.9	0.0	0.0	10.3	165.2	23.7	188.8
2005	92.3	19.8	21.8	4.2	3.3	1.3	17.2	47.7	0.0	2.5	1.8	0.0	0.0	10.4	172.7	22.9	195.6
2006	95.4	22.2	22.0	3.7	3.5	0.6	20.6	50.3	0.0	2.0	1.8	0.0	0.0	11.1	180.5	25.1	205.5
2007	92.0	26.3	22.4	4.3	3.0	0.4	12.0	42.1	0.0	1.6	7.7	0.0	0.0	12.4	179.6	27.9	207.5
2008	91.7	30.2	29.0	2.4	2.3	0.5	10.9	45.1	0.0	1.5	8.6	0.0	0.0	12.6	187.1	28.9	216.0
2009	93.9	24.5	22.8	3.1	2.3	0.4	13.6	42.2	0.0	1.5	14.3	0.0	0.0	12.4	186.4	27.9	214.3
2010	95.8	33.6	35.2	2.9	1.5	0.2	R 14.8	R 54.6	0.0	R 1.6	19.9	0.0	0.0	13.1	R 215.5	28.6	R 244.1
2011	92.7	39.7	50.0	1.8	1.6	0.2	R 18.7	R 72.3	0.0	R 2.0	21.0	0.0	0.0	14.7	R 239.7	32.0	R 271.7
2012	94.1	39.6	55.5	2.2	1.4	(s)	R 16.9	R 76.0	0.0	R 2.0	19.5	0.0	0.0	17.5	R 245.5	37.7	R 283.1
2013	88.1	43.8	64.1	3.9	1.5	0.0	R 21.1	R 90.6	0.0	R 2.2	19.6	0.0	0.0	18.1	R 259.9	38.4	R 298.3
2014	93.3	46.7	71.3	3.5	1.3	(s)	R 20.5	R 96.6	0.0	R 2.3	20.0	0.0	0.0	25.5	R 281.8	54.9	R 336.7
2015	95.7	R 58.7	45.4	2.9	2.0	(s)	R 18.0	R 68.4	0.0	R 2.2	23.0	0.0	0.0	23.8	R 269.1	51.1	R 320.1
2016	94.0	59.1	32.6	2.6	1.9	0.0	16.1	53.2	0.0	2.2	24.7	0.0	0.0	25.4	256.2	53.8	310.0

^a Natural gas as it is consumed; includes supplemental gaseous fuels that are commingled with natural gas.

^b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

^d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

^f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^g Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

^h Losses and co-products from the production of fuel ethanol.

ⁱ Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the residential sector.

^j For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

column. Beginning in 2009, includes a small amount of wind energy consumed by industrial utility-scale facilities. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

^k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

kWh = Kilowatthours. -- = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at <https://www.eia.gov/state/seds/seds-data-complete.php>.

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.